

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **05111622 A**

(43) Date of publication of application: **07.05.93**

(51) Int. Cl.

B01D 63/14
B01D 63/00

(21) Application number: **03302640**

(22) Date of filing: **23.10.91**

(71) Applicant: **NIPPON MILLIPORE KOGYO KK**

(72) Inventor: **TAKAHARA KUNIYOSHI**
NOMURA YOSHIKI

(54) PRODUCTION OF FILTER ELEMENT

(57) Abstract:

PURPOSE: To obtain a filter film whose upper and lower end edges are surely sealed liquid-tightly by making an edge films be along the upper and lower end edges of a filter film to weld them then making perforated support bodies along both faces to form a accordion plate-shaped body and immersing the edge film in the substance whose end plates are fused.

CONSTITUTION: After a filter membrane 31 of tetrafluoroethylene resin, etc., and non-perforated edge films 23 made of thermoplastic resin are continuously fed and the edge films are superimposed on the filter membrane 31 at both edge parts, the superimposed substances are passed through hot rolls heated above the melting point of the edge film 23 to weld them. Next, perforated support bodies, such as nets made of thermoplastic resin are put on the both faces of the welded body to laminate them and the laminated body is folded in the form of accordion pleats. Further, the pleat-shaped laminated body is made in the endless shape and the perforated support bodies are superimposed and welded at both side edges to form a welded body which is immersed in thin holes of the membrane 31 and sealed to form a cylindrical body 24.

Thus the filter membrane whose upper and lower end edges are surely sealed liquid-tightly is obtained.

COPYRIGHT: (C)1993,JPO&Japio

